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1675 W. Garden of the Gods Rd., Suite 2044 Colorado Springs, CO 80907 (719) 578-3199 phone (719) 575-8664 fax www.elpasocountyhealth.org

ENGINEERED ON-SITE WASTEWATER TREATMENT SYSTEM FINAL INSPECTION FORM

P

On-site ID: ON0036293 Tax schedule(APN) #: 6201005003 Permit Type: New Environmental Health Specialist: Neil Mayes Final Inspection Date: 7.23.2020 Approved: Yes

Residential Property Information:

 Owner:
 Villagree, LLC
 Address:
 5290 Saxton Hollow Rd, Colorado Springs CO 80908
 Approved No. Bedrooms:
 5

 Water supply:
 Well Installation verified:
 7.23.2020
 Well Location GPS:
 39°01.782′N -104°44.089′W

 Approval will be revoked if in the future any well is found to be within 50 feet of the septic tank and/or 100 feet of the soil treatment area.

Minimum System Requirements:

High Rock Content: N/A Soil (in-situ) Type: 3A LTAR (In-situ soil): 0.3 Limiting Layer: Groundwater: NONE Bedrock: NONE

OWTS Tank: Capacity (gallons): 1500 OWTS Pump Tank: Capacity (gallons): N/A

Soil Treatment Area (STA): Sq. Ft. (10-1): 2000 Sq. Ft. (10-2): 2400 Sq. Ft. (10-3): 1680 Sq. Ft. (with Diverter Valve): N/A

NDDS (STA): Sq. Ft. (10-1): N/A NDDS Factor: N/A Sq. Ft. (NDDS adjustment): N/A

Mound (STA): LTAR (imported soil): N/A Chamber adjustment: N/A Distribution Area: N/A Basal Area: N/A

Engineering:

Design Engineer: Geoquest LLC Engineer design #: 19-0489

Date engineer record drawing/certification letter recieved: 5.9.2024

Tier II Licensesd Installer: AAA Bobcat(Olson Excavating

Final system installation: Treatment Level: 1

Annual Operation and Maintenance Inspection: Not Required OWTS Tank: GPS Location: 39°01.792′N -104°44.107′W

Tank Type: New Poly Capacity (gallon): 1530

OWTS Pump Tank:

Tank Type: NA Capacity (gallon): N/A Audio/Visual Alarm: N/A

OWTS Pump: N/A

Gal/dose: N/A Flow(gpm): N/A Total Dynamic Head: N/A

Soil Treatment Area (STA): GPS Location: 39°01.778′N -104°44.140′W Total Sq. Ft installed: 1800

<u>Configuration</u>: Bed <u>Distribution</u>: Gravity

Distribution Media:ChambersInflitrative Surface Depth:10 – 36"Distribution Area Length:150'Distribution Area Width:12'Basal Area Length:N/ABasal Area Width:N/A

Media Type: Arc 36 LP (15 sq/ft) Total installed: 120 chambers

Notes:



6825 Silver Ponds Heights #101 Colorado Springs, CO 80908 (719) 481-4560

El Paso County Health Department 1675 West Garden of the Gods Road Colorado Springs, Colorado 80907

Re: Septic System Inspection, GQ #19-0489

Lot #3, Filing #1,

Cathedral Pines Subdivision, 5290 Saxton Hollow Road, El Paso County, Colorado

Dear Sir or Madam,

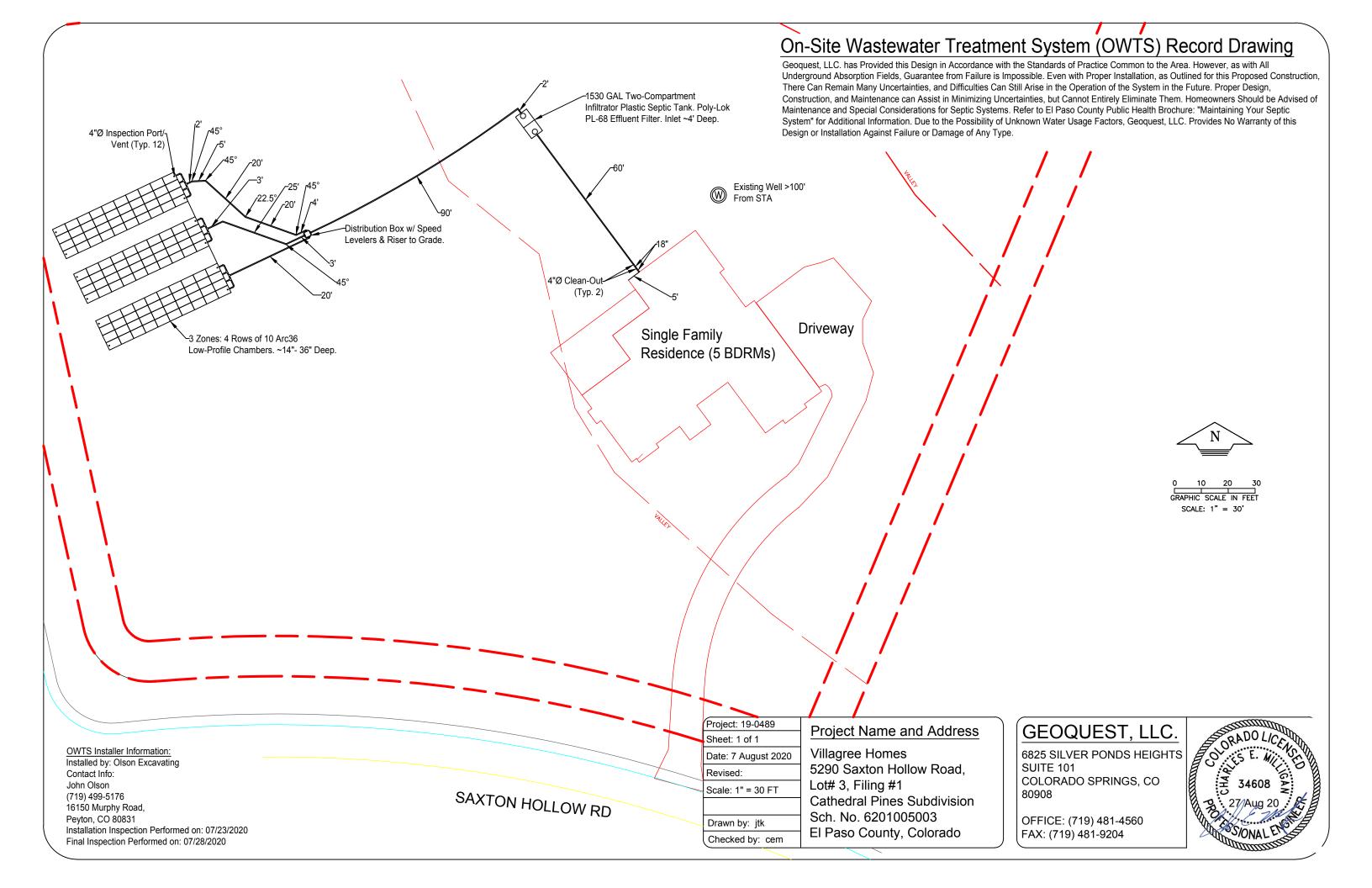
We inspected the installation of the engineered septic system at the above address at several points during its construction as well as the finished product. It has been installed in accordance with our engineered plans and specification. This includes having the correct size septic tanks, the proper grade on all pipes and sections of the absorption field, the correct depth, size and configuration of the absorption field, and the backfill around and over the field.

The field should be seeded in the future to allow for vegetation growth next spring. Additional grading may be required in the future to repair any minor erosion areas until the grass seed takes hold. You should ensure that no vehicles are allowed to park on any portion of the system.

The system is ready for final certification from the El Paso County Health Department. A Certificate of Occupancy (CO) will not be issued by PPRBD until El Paso County Health Department has received this letter and the Record Drawing. Please call me if you have any questions.

Sincerely,

Charles E. Milligan Civil Engineer



Notify Environmental Health of any change of ownership, type of business activity, business name, or billing address by calling (719) 578-3199. Failure to notify Environmental Health may result in late penalties, Permit/License denial or revocation, and business closure. PERMITS/LICENSES TO OPERATE AND ANNUAL FEE PAYMENTS ARE NOT TRANSFERABLE. Permits become void on change of ownership. New owners must apply and pay for a new Permit(s)/License(s) prior to beginning operation.

Attn: VILLAGREE LLC 5290 SAXTON HOLLOW RD

COLORADO SPRINGS, CO 80908



EL PASO COUNTY PUBLIC HEALTH ENVIRONMENTAL HEALTH DIVISION

1675 W. GARDEN OF THE GODS ROAD, SUITE 2044 COLORADO SPRINGS, CO.80907 PHONE: (719) 578-3199 FAX: (719) 578-3188 www.elpasocountyhealth.org

NEW SYSTEM PERMIT - OWTS

Valid From 10/2/2019 To 10/2/2020

PERMITEE:

VILLAGREE LLC 5290 SAXTON HOLLOW RD COLORADO SPRINGS, CO 80908

OWNER NAME:

VILLAGREE LLC

Onsite ID: ON0036293
Tax Schedule #: 6201005003

Permit Issue Date: 10/02/2019

Dwelling Type: RESIDENTIAL

of Bedrooms (if Res): 5
Proposed Use (if Comm):
Designed Gallons/Day:

Water Source: PRIVATE WELL

System Installation Requirements:

- An Engineered OWTS system to be installed on site due to encountering USDA Soil Type 3A, requiring a Tier II licensed installer.
- System installation to include a gravity fed system with d-box to chamber in a bed configuration, max installation depth of 36" is required by the engineer. Minimum tank requirements 1500 gallon and 1680 sq ft of soil treatment area (140 Q4 / 112 Arc 36 chambers required).
- The system must be installed per approved Geoquest, LLC design document #19-0489 stamped and dated 7.2.2019, changes to the approved design document must be submitted and approved by Public Health prior to installation.
- All horizontal setbacks must be maintained through system installation. In addition system must remain completely uncovered, including the tank size, for final inspection.
- The well must be installed at time of final inspection, or final approval will not be given until well installation is verified.
- Engineered systems require the as built drawing and certification letter from the engineer be submitted to Public Health prior to final approval and Regional Building sign off
- Ensure that all work is completed prior to contacting and requesting final line for inspection, otherwise additional fees may be incurred.

Heat May

Attn: VILLAGREE LLC 5290 SAXTON HOLLOW RD COLORADO SPRINGS, CO 80908 Notify Environmental Health of any change of ownership, type of business activity, business name, or billing address by calling (719) 578-3199. Failure to notify Environmental Health may result in late penalties, Permit/License denial or revocation, and business closure. PERMITS/LICENSES TO OPERATE AND ANNUAL FEE PAYMENTS ARE NOT TRANSFERABLE. Permits become void on change of ownership. New owners must apply and pay for a new Permit(s)/License(s) prior to beginning operation.



EL PASO COUNTY PUBLIC HEALTH ENVIRONMENTAL HEALTH DIVISION

1675 W. GARDEN OF THE GODS ROAD, SUITE 2044 COLORADO SPRINGS, CO 80907 PHONE: (719) 578-3199 FAX: (719) 578-3188

www.elpasocountyhealth.org

This permit is issued in accordance with 25-10-106 Colorado Revised Statutes. The PERMIT EXPIRES upon completion/installation of the Onsite Wastewater Treatment System, or at the end of twelve (12) months from date of issue, whichever occurs first. If both a Building Permit and an Onsite Wastewater Treatment System Permit are issued for the same property and construction has not commenced prior to the expiration date of the Building Permit, the Onsite Wastewater Permit shall expire at the same time as the Building Permit. This permit is revocable if all stated requirements are not met. The Onsite Wastewater Treatment System must be installed by an El Paso County Licensed System Contractor, or the property owner.

The Health Officer shall assume no responsibility in case of failure or inadequacy of an Onsite Wastewater Treatment System, beyond consulting in good faith with the property owner or representative. Access to the property shall be authorized at reasonable time for the purpose of making such inspections as are necessary to determine compliance with the requirements of this law (permit).

Inspection request line: Call (719) 575-8699 before 3:30 p.m. the business day prior to the requested inspection date.

Authorized By: Environmental Health Specialist



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1675 W. Garden of the Gods Rd., Suite 2044 Colorado Springs, CO 80907 (719) 578-3199 phone (719) 578-3188 fax:

www.elpasocountyhealth.org

APPLICATION FOR AN ON-SITE WASTEWATER TREATMENT SYSTEM PERMIT

Property Information:	
Property Address: 5290 Saxton Hollow Road Lega	city and Zip: Colorado Springs 809
Description: Lot 3 Cathedral Pines Sub Fil No.1	
Tax Schedule #: 6201005003	Lot size: 2.5\
Is the property gated: Yes No Please pro	vide a gate code if necessary:
Site Located Inside City Limits: Yes No	Proposed Use: Residential Commercial
Water Supply: X Well Cistern Municipa	
Has a Conditional Acceptance Document been issued	d for this property: Yes No Unsure
Owner Information: Primary Contact	
Owner: Villagree, LLC	Daytime Phone:(719) 651-7577
Owners Mailing Address: 8585 Criterion Dr. #6270-	4, Colorado Springs, CO 80962
Email Address: _info@villagree.com	Fax #:
General Contractor: Elaine Cawlfield	Phone/Email: (719) 651-7577
OWTS Installer Information: Primary Conta	
System Installer: JR Olson Excavating	Daytime Phone: (719) 499-8038
Email Address:jrolsonex@aol.com	Licensed installer: Tier 1 X Tier 2
	be installed by a Tier 2 licensed installer
REQUIRED: Provide a complete written sco Install new septic system for new home construction	pe of work to be performed on the property.
 The following documents MUST A soils report: including at least 1 soil profile excavation A clear and legible design document: including the proportion 	
 all setbacks to pertinent structures and features in table 7- Provide directions to property, from a main highway, on 	osed and alternate locations, as well as system layout, labeled with -1. the back side of application.
all setbacks to pertinent structures and features in table 7-	osed and alternate locations, as well as system layout, labeled with -1. the back side of application.



Property address or lot number must be clearly marked and visible from the road.
Profile excavation test pit and/or soil profile holes must be clearly marked
Proposed and alternate soil treatment areas must be protected from compaction and disturbance
Locked gates require the gate code or lock combination be provided on front of application
Please provide directions to the property from a main highway, by text or picture, below.
Failure to comply with the above information may result in an additional charge for a return trip.
Permit #: Site Inspection date:/0////9
1. / 1.0
Date Approvals Rcvd: Development Services: 10/1/19 Floodplain/enumerations: 1/14
(1/C
Design: Conventional Engineer Design Engineer: Cooquest, LLC
Engineer Job #: Engineer Date Stamped:
1000 1001
Minimum Requirements: Tank Capacity:Soil Treatment Area:
System Feed: Gravity Pump to Gravity Pressure Dosed Other:
System Media: Chambers Rock and Pipe Other Soil Treatment Area: Trenches Bed
Additional Comments:
11/1/11/
E.H. Specialist: Date: 10/2/19 Approved Denied



6825 Sílver Ponds Heights #101 Colorado Spríngs, CO 80908 (719) 481-4560

PROFILE PIT EVALUATION

FOR

VILLAGREE HOMES

JOB #19-0489

Lot #3, Filing #1, Cathedral Pines Subdivision, 5290 Saxton Hollow Road, El Paso County, Colorado

Sincerely,

Charles E. Milligen, P.E.

Civil Engineer

PROFILE PIT FINDINGS

Enclosed are the results of the profile pit for the septic system to be installed at Lot #3, Filing #1, Cathedral Pines Subdivision, 5290 Saxton Hollow Road, El Paso County, Colorado. The location of the test pit was determined by Villagree Homes. The residence will not be on a public water system. The number of bedrooms in the design for the residence is unknown. Due to the natural slope of the property, the entire system will feed to the north to northwest at approximately 12% at least 20 feet. All applicable portions of the El Paso County Health Department Onsite Wastewater Treatment System Regulations (OWTS) must be complied with for the installation of the treatment system.

The inspection was performed on June 3, 2019, in accordance with Table 10-1 of the E.P.C.P.H. OWTS Regulations.

Soil Profile #1:

0 to 8" - Topsoil - loam, organic composition.

8" to 8' - USDA soil texture sandy loam, soil type 2A, structure shape granular, structure grade 1, non-cemented, LTAR 0.50, reddish yellow in color, 5 YR 6/8.

Soll Profile #2:

0 to 8" - Topsoil - loam, organic composition.

8" to 35" - USDA soil texture sandy loam, soil type 2A, structure shape granular, structure grade 1, non-cemented, LTAR 0.50, yellow in color, 10 YR 7/6.

35" to 8' - USDA soil texture sandy clay loam, soil type 3A, structure shape massive, structure grade 0, weakly cemented, LTAR 0.30, white in color, 10 YR 9/1.

Groundwater was not encountered during the inspection. Bedrock was not encountered during the inspection. No known wells were observed within 100 feet of the proposed system. All setbacks shall conform to county regulations.

Due to encountering USDA soil type 3A, the septic system to be installed on this site shall be designed by a Colorado Licensed Engineer. Based on the observed conditions, we feel a design based on an LTAR of 0.30 GPD/SF (USDA 3A, treatment soil, treatment level 1) is reasonable. Maximum depth of the installation shall not be deeper than 3 feet below the existing grade.

If during construction of the field itself, subsurface conditions change considerably or if the location of the proposed field changes, this office shall be notified to determine whether the conditions are adequate for the system as designed or whether a new system needs to be designed.

Weather conditions at the time of the test consisted of cloudy skies with hot temperatures.

PROFILE PIT LOG - Profile Pit #1 MATER % DEPTH (in JOB#: 19-0489 DATE EVALUATED: 03 Jun 2019 EQUIPMENT USED: MINI-EXCAVATOR 0"-8" TOPSOIL Loam Organic Composition 8"- 8" Sand Fine-coarse Grained USDA Soil Texture: Sandy Loam 2A USDA Soil Type: 2A **Moderate Density** USDA Structure Shape: Granular Moderate Moisture Content **USDA Structure Grade: 1** Low-moderate Clay Content Low-moderate Cohesion Cementation Class: Non-cemented Low-moderate Plasticity Long Term Acceptance Rate (LTAR, Treatment Level 1):0.50 Reddish Yellow Color 5YR 6/8

LTAR to be Used for OWTS Sizing: 0.30GPD/SF (USDA Type 32A, Treatment soil, Treatment Level 1)

Depth to Groundwater (Permanent or Seasonal): Not Encountered

Depth to Bedrock and Type: Not Encountered

Depth to Proposed Infiltrative Surface from Ground Surface: Max. 3' Deep

Soil Treatment Area Slope and Direction: NNW @ 12%

Note: See El Paso County Board of Health Regulation Chapter 8: On-Site Wastewater Treatments Systems (OWTS) Regulations for Additional Information. Refer to Table 10-1 for Corresponding LTAR if Treatment Level 2, 2N, 3, or 3N will be Implemented in the Design of the OWTS. System Sizing Depends on a Number of Factors (i.e. LTAR, # of Bedrooms, Type of Soil Treatment Area (STA), Method of Transfer to the STA (Gravity, Dosed, or Pressure Dosed), and Type of Storage / Distribution Media Used in the STA)

Project: 19-0489	Project Name and Address
Sheet: 1 of 2	1 toject (vaine and / tadiooc
Date: 13 Jun 2019	Villagree Homes
	5290 Saxton Hollow Rd
	Lot 3, Filing 1
Scale: 1/4" = 1'	Cathedral Pines
Drawn by: mtj	Sch. No. 6201005003
Checked by: cem	El Paso County, Colorado

GEOQUEST, LLC.	
6825 SILVER PONDS HEIGHTS SUITE 101 COLORADO SPRINGS, CO 80908	
OFFICE: (719) 481-4560 FAX: (719) 481-9204	

JOB#: 19-0489 DATE EVALUATED: 03 Jun 201 EQUIPMENT USED: MINI-EXCA	9	DEPTH (in ft.)	SYMBOL	SAMPLES	WATER %	SOIL TYPE
O"-8" TOPSOIL Loam Organic Composition 8"- 35" Sand Fine-coarse Grained Moderate Density Moderate Moisture Content Low-moderate Clay Content Low-moderate Plasticity Yellow Color 10YR 7/6 35"- 8' Sand Fine-coarse Grained Moderate-high Density Moderate Moisture Content Moderate Clay Content Low-moderate Cohesion Low-moderate Plasticity White Color 10YR 9/1	USDA Soil Texture: Sandy Loam USDA Soil Type: 2A USDA Structure Shape: Granular USDA Structure Grade: 1 Cementation Class: Non-cemented Long Term Acceptance Rate (LTAR, Treatment Level 1):0.50 USDA Soil Texture: Sandy Clay Loam USDA Soil Type: 3A USDA Structure Shape: Massive USDA Structure Grade: 0 Cementation Class: Weakly Long Term Acceptance Rate (LTAR, Treatment Level 1):0.30	2 — 4 — 6 — 8 — 10 — 12 — 14 — 14 — 1	88			3A

LTAR to be Used for OWTS Sizing: 0.30GPD/SF (USDA Type 3A, Treatment soil, Treatment Level 1)

Depth to Groundwater (Permanent or Seasonal): Not Encountered

Depth to Bedrock and Type: Not Encountered

Depth to Proposed Infiltrative Surface from Ground Surface: Max. 3' Deep

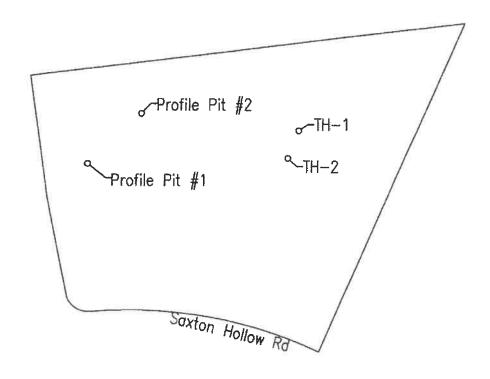
Soil Treatment Area Slope and Direction: NNW @ 12%

Note: See El Paso County Board of Health Regulation Chapter 8: On-Site Wastewater Treatments Systems (OWTS) Regulations for Additional Information. Refer to Table 10-1 for Corresponding LTAR if Treatment Level 2, 2N, 3, or 3N will be Implemented in the Design of the OWTS. System Sizing Depends on a Number of Factors (i.e. LTAR, # of Bedrooms, Type of Soil Treatment Area (STA), Method of Transfer to the STA (Gravity, Dosed, or Pressure Dosed), and Type of Storage / Distribution Media Used in the STA)

Project: 19-0489	Project Name and Address
Sheet: 2 of 2	riojectivanie and Address
Date: 13 Jun 2019	Villagree Homes
	5290 Saxton Hollow Rd Lot 3, Filing 1
Scale: 1/4" = 1'	Cathedral Pines
Drawn by: mtj	Sch. No. 6201005003
Checked by: cem	El Paso County, Colorado

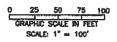
GEOQUEST, LLC.
6825 SILVER PONDS HEIGHTS SUITE 101 COLORADO SPRINGS, CO 80908
OFFICE: (719) 481-4560 FAX: (719) 481-9204

GEOQUEST LLC
SITE MAP
Lot 3, Filing 1
Cathedral Pines
5290 Saxton Hollow Rd
El Paso County
Colorado
Job #19-0489



Location from Northwest Lot Corner to Profile Pit #1: S. 33° E. - 112'
Location from Profile Pit #1 to Profile Pit #2: N. 46° E. - 77'
GPS Coordinates:
Pit 1; N. 39° 01' 46.66" W. 104° 44' 08.30"
Pit 2; N. 39° 01' 47.18" W. 104° 44' 07.67"





Cover Page

Proposed Single Family CALCULATIONS (New OWTS):

Residence with 5 Bedrooms

Square Foot (GPD/SF), USDA Soll LTAR = 0.30 Gallons per Day per Type 3A per Profile Pit 6/3/2019.

Q = 600.0 Gallons per Day (GPD) Q = (3 BDRM)(150 GPD)+(2 BDRM)(75 GPD)

A = 2,000.0 SF

Gravity Fed Chamber Beds:

A = 1,680.0 SF Required ~ A = (2,000.0 SF)(1.2)(0.7)

CHAMBER BED SYSTEM (Gravity Fed):

Chambers Provided = 144 Total # Chambers = 1,680.0 SF / 12.0 SF = Min. 140 Chambers # Chambers = SF RQD / 12.0 SF per Chamber Total Contact Area = 1,680.0 SF Required nstall 3 Zones: 4 Rows x 12 Chambers Long mitirator Systems Inc. Quick 4 Standard Chambers otal Contact Area = 1,728.0 SF Actual

Fotal). Contact Engineer for Clarification Chambers). Install 3 Zones with 4 Rows of 10 Chambers (120 For ARC 36 Standard Chambers (15.0 SF / Chamber, Min. 112 🔪 Note: Use of Alternative Chambers is Acceptable.

MAXIMUM DEPTH:

36" As Measured on the Up-Hill Side of the Excavation

EPCHD Approved Effluent Filter on Outlet Main Tank Size = Min. 1,500 Gallons (Two-Compartment) TANK SIZES:

- Engineer Will Inspect the Installation of All OWTS Components (i.e. All INSPECTIONS REQUIRED ARE AS FOLLOWS: Plumbing, Tanks, Pump Chamber, STA, etc.) Prior to Backfill
- Engineer to inspect the Soll Treatment Area After Backfill to Insure Min. Please Notify this Office Min. 24 Hours Prior to Inspection. Cover and Proper Drainage Away from Soil Treatment Area.

PIPE NOTES:

on Pipe to the Soil Treatment Area. Provide 2.0% Min. Grade on Pipe to Septic Tank. Provide 2.0% Min. Grade

Department Regulations. All Bends Limited to 45 Degree Ells or Long Sweep Quarter Bends. Areas Inder Driveways Shall Be Protected as Per El Paso County Health

Change in Direction Exceeds 135 Degrees. at Intervals Not to Exceed 100' in Straight Runs and When the Cumutative Building Sewer Clean-Outs Shall Be Installed within 5 FT of the Structure and

FINAL GRADING NOTES:

of 6" of Select Topsoil to Provide a Base for Good Vegetative Cover. Soil Treatment Area Shall Be Crowned and Covered with a Minimum

Formation of Bio-Matting. Do Not Pave Over the Soil Treatment Area. Contact Soil Conservation Service or County Extension Agent for Vegetation Best Suited for the Area. Grasses are Best. Trees and Shrubs May Damage/Block Pipes. Vegetation Shall Be Maintained and Mowed to Prevent

Provide Drainage Swale Around Uphill Side of the Soil Treatment Area

HOMEOWNER RESPONSIBILITY:

- Have Septic Tank Pump Every 3-5 Years
- lave OWTS inspected Annually (or As Needed, Contact Licensed Pumper)
- -Clean Effluent Filter
- Check Water Levels in Inspection Ports
- Plant Native Grass Over STA (No Plants with Roots or that Require irrigation)
- Don't Pour Chemicals Down Drain
- Don't Throw Trash in Toilet
- (Minimize Toilet Paper Consumption)
- Jse of Garbage Disposal is Discouraged
- Conserve Water and Repair Leaking Fixtures

and EPA List of Septic "Do's and Don'ts" This is NOT a Complete List (Contact Local Health Department

Failure is Impossible. Even with Proper Installation, as Outlined for this Proposed Construction, There Can Remain Many Uncertainties, and Difficulties Can Still Arise in the Should be Advised of Maintenance and Special Considerations for Septic Systems. Refer to El Paso County Public Health Brochure: "Maintaining Your Septic System" for Additional Operation of the System in the Future. Proper Design, Construction, and Maintenance can Assist in Minimizing Uncertainties, but Cannot Entirely Eliminate Them. Homeowners Geoquest, LLC, has Provided this Design in Accordance with the Standards of Practice Common to the Area, However, as with All Underground Absorption Fields, Guarantee from Information. Due to the Possibility of Unknown Water Usage Factors, Geoquest, LLC. Provides No Warranty of this Design or Installation Against Failure or Damage of Any Type.

GENERAL NOTES:

Chapter 8: On-Site Wastewater Treatment Systems All Work per El Paso County Board of Health Regulations (OWTS) Criteria.

Setbacks and Obtain Utility Clearances Prior to information). Contractor/Homeowner Must Verify All (See Table 7-1 in the Regulations for Additional All Setbacks Shall Conform to El Paso County Regulations

Engineered OWTS from the El Paso County Health Contractor/Homeowner Must Obtain Approval of Department. Contractor/Homeowner is Responsible for Permit.

Quarter Bends. Areas Under Driveways Shall Be Protected as Per El Paso County Health Department Regulations. All Bends Limited to 45 Degree Ells or Long Sweep

Greater Than 45° within a 40 FT Section of Building Sewer in Straight Runs, Upstream at Each Change of Direction 5 FT of the Structure and at Intervals Not to Exceed 100 FT Greater Than 45°, and at Any Combination of Bends Building Sewer Clean-Outs Shall Be installed within

Grade Surrounding Area to Drain Away from the Soil Treatment Area (STA).

STA may Cause Premature Failure and is Prohibited. Traffic or Hoofed Animal Traffic of Any Kind Over the Paving, Planting of Trees/Shrubs, Irrigation, Vehicular

Details and Information. Refer to Sheet 2, 3, and 4 for Additional

6825 SILVER PONDS HEIGHTS GEOQUEST, LLC.

OFFICE: (719) 481-4560 COLORADO SPRINGS, CO

FAX: (719) 481-9204



Project: 19-0489	Project Name and Address
Sheet: 1 of 4	Villagree Homes
Date: 2 July 2019	5290 Saxton Hollow Road
Revised:	Cathedrat Pines Subdivision
Drawn by: vsm	Sch. No. 6201005003
Checked by: dlp	El Paso County, Colorado

CHAMBER BED SYSTEM (Gravity Fed):
Infiltrator Systems Inc. Quick 4 Standard Chambers
(Chambers = SF RQD / 12.0 SF per Chamber
(Chambers = 1,680.0 SF / 12.0 SF = Min. 140 Chambers
(Install 3 Zones: 4 Rows x 12 Chambers Long
(Chambers Provided = 144 Total
(Contact Area = 1,728.0 SF Actual
(Contact Area = 1,680.0 SF Required

Note: Use of Alternative Chambers is Acceptable.
For ARC 36 Standard Chambers (15.0 SF / Chamber, Min. 112
Chambers). Install 3 Zones with 4 Rows of 10 Chambers (120
Total). Contact Engineer for Clarification.

OWTS to be Roped Off (Caution Tape or Temporary Construction Fencing is Acceptable) Prior To and During Construction to Prevent Construction Treffic from Compacting Surface Soils and Protect the STA from Traffic After Installation.

Minor Rotation or Curvature (ie. Less Than 15°) of the Soil Treatment Area (STA) Beds to Best Fit the Site Topography is Acceptable (i.e. Parallel to Site Contours). STA shall Maintain the Approximate Orientation Shown w/ Respect to Buildings and Lot Lines. Contact Engineer for Clarification.

Install Drainage Swale Between the House and Soil Treatment Area to Ensure Surface Runoff is Diverted Around the STA. Downspouts near the STA Shall Discharge into the Swale or Extended Beyond the STA.

Special Note: A Sewage Ejector Pump System may be Required in the Basement. If Needed, Spitt the Flow from the Upper and Lower Levels (Only Lift the Flow from the Basement). This will Allow Installation of the Septic Tank as Shallow as Possible (Max. 4 FT of Cover Over Septic Tank), while Maintaining Gravity Flow from the Septic Tank to the Soil Trastment Area (Max. 3 FT to the Bottom of the Chambers from Finished Grade, 24 to 36 Inches Preferred).

*Indicates Geoquest, LLC. Profile Pit Test Locations
Location from Northwest Lot Comer to Profile Pit # 1: S. 33° E. - 112'
Location from Profile Pit # 1 to Profile Pit # 2: N. 46° E. - 77'
GPS Coordinates:
Pit # 1: N. 39° 01' 46.66", W. 104° 44' 08.30"

Pit # 1: N. 39° 01' 46.86", W. 104° 44' 08.30" Pit # 2: N. 39° 01' 47.18", W. 104° 44' 07.67"

> (Water Tight, Min. 3" Above Finish Grade, to Grade with Secure Access Cover Compartment Septic Tank w/ EPCPH Exact Location to be Field Determined Approx. 24" Below Existing Grade. Risers (Requires Regular Maintenance). Inlet Approved Effluent Filter on Outlet Min. 1,500 Gal. Precast Concrete Two Typ. All Septic Tank Access Locations). Secure Access Riser to Grade to Allow Ensure Equal Distribution. Install a for Future Speed Leveler Adjustment Distribution Box w/ Speed Levelers to 3 Zones: 4 Rows x 12 Chambers See Detail on Page 3 for 34" W x 48" L x 12" H Each Bed (Typ. of 16 Total) Each Comer of Each Long (144 Total). See STA Quick4 Plus Standard Chambers: Additional Detail and Clarification Additional Information. nspection Port / Vent at ayout and Cross-Section for -Native STA Slope: NNW @ ~6% L=48,92 EWKESBURY CT. 00.03 Septic Tank (100 FT Preferred). Maintain Min. 100 FT to Any STA, and Min. 50 FT to the Proposed Well (Exact Location to be Field Determined). L = 35.98R=25.0 Dry Gulch Min. 25 FT to STA SAXTON HOLLOW RD Profile Pit #2 N82°41'01"E N.R. L#254.7g 474.90 -Driveway GRAPHIC SCALE IN FEET with 5 Bedrooms Family Residence Proposed Single

4" Ø PVC Solid Pipe from the Proposed House to the Septic Tank, with Cleanout within 5 FT of House and at Intervals Not to Exceed 100 FT in Straight Runs, Upstream at Each Change of Direction Greater Than 45°, and at Any Combination of Bends Greater Than 45° within a 40 FT Section of Building Sewer. Maintain 2.0% Min. Grade on Pipe Feeding the Septic Tank. Exact Location of the Discharge Line from the House per Plumbing Design by Others.

COLORADO SPRINGS, CO 8090B

OFFICE: (719) 481-4560

FAX: (719) 481-9204

Project: 19-0489
Sheet: 2 of 4
Date: 2 July 2019

5:590

GEOQUEST, LLC.

8825 SILVER PONDS HEIGHTS
COLORADO SPRINGS, CO
88308

OFFICE: (719) 481-4560

FAX: (719) 481-4560

Project: 19-0489

Project: 19-0489

Villagree Homes

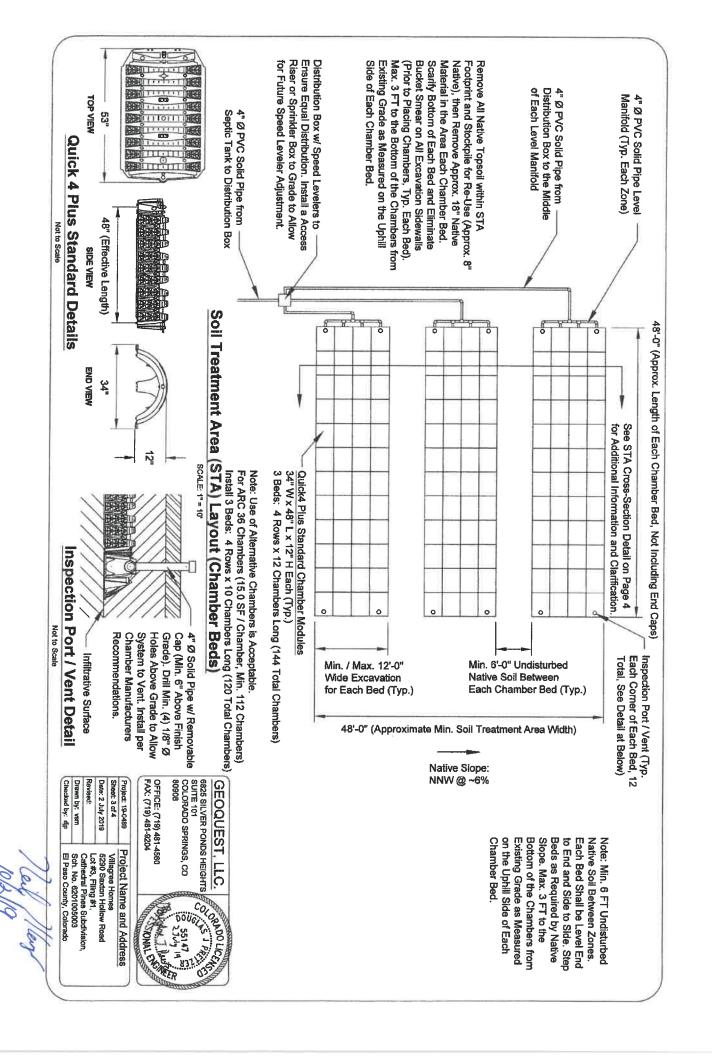
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Villagree Homes

Project: 19-0489 Project Name and Address
Sheet: 2 of 4 Villagree Homes
Date: 2 July 2019 Lot #3, Filing #1,
Chacked by: dip El Paso County, Colorado

Project: Name and Address
Villagree Homes
Scathology Road
Chacked by: dip El Paso County, Colorado

New 16/2/19



Ponding of Precipitation. It is Acceptable to Cover Crowned Slope Over All Chamber Beds to Prevent be Taken to Grade the Area Between Beds to Chambers with Min. 6" Topsoil. Install a Continuous Provide Min.10" (36" Max.) Cover Over Top of Prevent Ponding of Precipitation Each Bed Individually if Desired. Special Care Shall Plant w/ Native Grasses and Min. 6'-0" Undisturbed Native Soil Between 48'-0" (Approximate Min. Soil Treatment Area Width) Excavation for Each Bed (Typ.) Min. / Max. 12'-0" Wide Drainage Swale on Uphil Treatment Area (Min. 2% Side to Divert Surface Precipitation Runoff Provide Positive Around the Soil

Native Slope: NNW @ ~6%

Maintain (See Notes)

Chamber Beds

All Sides of Each Bucket Smear (Typ. Surface to Eliminate Roughen Sidewall

Excavation)

Chambers, Typ. Each Bed). Max. 3 FT to the Bottom of Stockpile for Re-Use (Approx. 8" Native), then Remove the Chambers from Existing Grade as Measured on the Smear on All Excavation Sidewalls (Prior to Placing Bed. Scarify Bottom of Each Bed and Eliminate Bucket Approx. 18" Native Material in the Area Each Chamber Remove All Native Topsoil within STA Footprint and Jphill Side of Each Chamber Bed.

Measured on the Uphill Side of Each Chamber Bed Bottom of the Chambers from Existing Grade as Step Beds as Required by Native Slope. Max. 36" to the Each Bed Shall be Level End to End and Side to Side. Note: Min. 6 FT Undisturbed Native Soil Between Zones

Quick4 Plus Standard Chamber Modules 34" W x 48" L x 12" H Each (Typ.)

3 Beds: 4 Rows x 12 Chambers Long (144 Total Chambers)

Contact Engineer for Clarification. install 3 Beds: 4 Rows x 10 Chambers Long (120 Total Chambers) For ARC 36 Chambers (15.0 SF / Chamber, Min. 112 Chambers) Note: Use of Alternative Chambers is Acceptable

> be Set Level in Each Bed. Native Slope. Chambers Shall Step Beds as Required by

Bucket Smear (Typ. Surface to Eliminate Roughen Sidewall Excavation) All Sides of Each

Max. 3'-0" from Finish Grade as Measured on the Uphill Side of the Each Zone

Best Fit the Site Topography is Acceptable. Design Layout. Minor Rotation or Curvature (ie. Less Than 15°) of the Soil Treatment Area (STA) Beds to Special Note: STA Layout Illustrates the General

Soil Treatment Area (STA) Cross-Section (Chamber Beds)

Not to Scale

Native Topsoil (Approx. 8", Remove Min. 6" from STA Re-Use on Final Cover) Footprint and Stockpile for Topsoil (Min. 6" on Final Cover)

(USDA 2A, Approx. 8" - 35"

COLORADO SPRINGS, CO 80908

Below Existing Grade) Native Soil - Sandy Loam



Total, Including Topsoil) Cover (Min. 10", Max. 36" Approved Material to Provide

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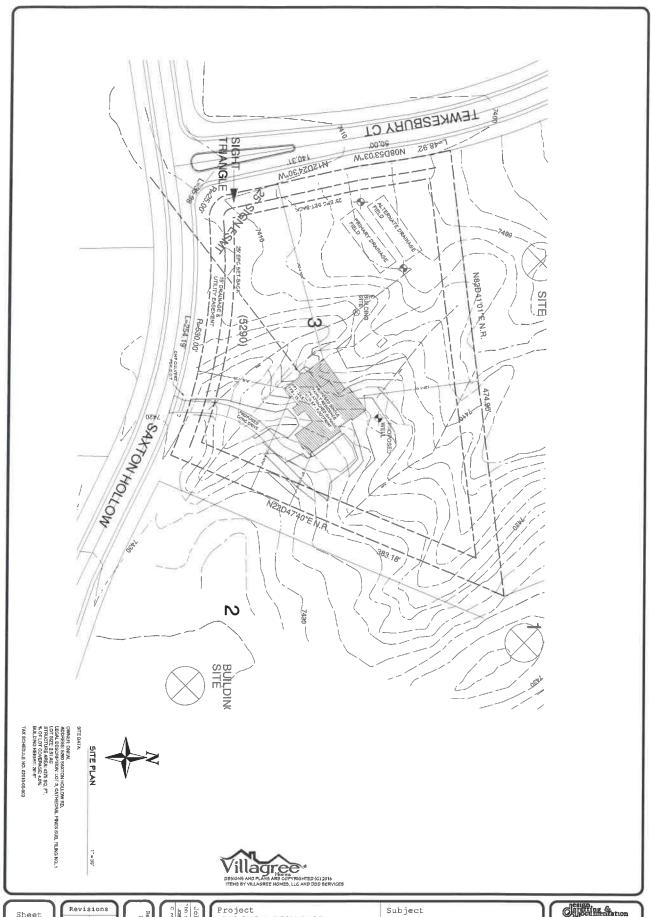
Native Soil - Sandy Clay Loam (USDA 3A, Approx. 35" - 8'-0" Below Existing Grade)

8825 SILVER PONDS HEIGHTS	GEOQUEST, LLC.
CO	DE STEEL

OFFICE: (719) 481-4560 FAX: (719) 481-9204



	Drawn by: vsm Sch, No.	Revised: Cathedral Pines	Date: 2 July 2019 5280 Sax	Sheet: 4 of 4 Villagrae Homes	Project Project
El Paso County, Colorado	Sch. No. 6201005003	Cathedral Dines Subdivision	5290 Saxton Hollow Road	Homes	Project Name and Address



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Project THE ONEAL RESIDENCE 5290 SAXTON HOLLOW

Subject SITE PLAN

